## Amendments to the Claims

A complete set of the existing claims are set forth below, with the amended claims showing deletions (strikethroughs) and insertions (underline).

1. (Currently amended) A projection system comprising:

a solid state light source;

a sensor either coupled to or integrated with the solid state light source to monitor a region of the solid state light source for a thermal condition, and output a signal indicative of the thermal condition of the monitored region; and

a controller coupled to the sensor to conditionally initiate one or more thermal management actions based at least in part on the thermal condition of the region as indicated by the signal.

- 2. (Original) The projection system of claim 1, wherein the solid state light source comprises a selected one of a light emitting diode and a laser diode.
- 3. (Original) The projection system of claim 1, wherein the projection system further comprises an active cooling arrangement thermally coupled to the solid state light source, and the controller is coupled to the active cooling arrangement to control its operations, varying an amount of cooling the active cooling arrangement imparts on the solid state light source based at least in part on the thermal condition of the region as indicated by the signal.
- 4. (Original) The projection system of claim 3, wherein the active cooling arrangement comprises a fan, and the controller controls a speed of the fan, varying an amount of air flow the fan drives pass the solid state light source.

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- 5. (Original) The projection system of claim 3, wherein the active cooling arrangement comprises a cooling pipe, and the controller controls a flow rate of the cooling pipe, varying an amount of fluid flow pass the solid state light source.
- 6. (Original) The projection system of claim 3, wherein the active cooling arrangement comprises a thermoelectric cooler, and the controller controls an operation level of the thermoelectric cooler, varying an amount of heat being removed from the solid state light source.
- 7. (Original) The projection system of claim 3, wherein the projection system further comprises drive circuitry coupled to the solid state light source to drive the solid state light source, and the controller is further coupled to the drive circuitry to influence its operation, indicating to the drive circuitry to vary an amount of drive voltage or current the drive circuitry applies to the solid state light source, based at least in part on the thermal condition indicated by the signal.
- 8. (Original) The projection system of claim 1, wherein the projection system further comprises drive circuitry coupled to the solid state light source to drive the solid state light source, and the controller is coupled to the drive circuitry to influence its operation, indicating to the drive circuitry to vary an amount of drive voltage or current the drive circuitry applies to the solid state light source, based at least in part on the thermal condition indicated by the signal.
- 9. (Original) The projection system of claim 1, wherein the projection system further comprises

a processor coupled to the light source to control the light source to project an

image; and

an input interface coupled to the processor to facilitate input to the processor

pixel data of the image.

10. (Currently amended) The projection system of claim 98, wherein the processor

comprises the controller.

11. (Original) The projection system of claim 8, wherein the projection system further

comprises a television tuner coupled to the input interface.

12. (Currently amended) In a projection apparatus, a method of operation

comprising:

monitoring a region of a solid state light source of the projection apparatus for

thermal condition through a sensor integrated within the region of the solid state light

source, and outputting a signal indicative of the thermal condition of the monitored

region; and

conditionally initiating one or more thermal management actions based at least in

part on the thermal condition of the region as indicated by the signal.

13. (Original) The method of claim 12, wherein said conditionally initiating of one or

more thermal management actions comprises conditionally controlling an active cooling

arrangement, varying an amount of cooling the active cooling arrangement imparts on

the solid state light source based at least in part on the thermal condition of the region

as indicated by the signal.

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- 14. (Original) The method of claim 13, wherein said conditionally controlling an active cooling arrangement comprises controlling a speed of a fan, varying an amount of air flow the fan drives pass the solid state light source.
- 15. (Original) The method of claim 13, wherein said conditionally controlling an active cooling arrangement comprises controlling an operation level of a thermoelectric cooler, varying an amount of heat being removed from the solid state light source.
- 16. (Original) The method of claim 13, wherein said conditionally controlling an active cooling arrangement comprises controlling a flow rate of a cooling pipe, varying an amount of fluid flowing pass the solid state light source.
- 17. (Original) The method of claim 13, wherein the method further comprises applying an amount of a selected one of a voltage and a current to drive the solid state light source, and said conditionally initiating of one or more thermal management actions further comprises conditionally indicating an variation to the amount of the selected one of the voltage and the current to be applied, based at least in part on the thermal condition indicated by the signal.
- 18. (Original) The method of claim 12, wherein the method further comprises applying an amount of a selected one of a voltage and a current to drive the solid state light source, and said conditionally initiating of one or more thermal management actions comprises conditionally indicating an variation to the amount of the selected one of the voltage and the current to be applied, based at least in part on the thermal condition indicated by the signal.

(Currently amended) A projection apparatus comprising:
solid state light source means for providing light;

means <u>integrated within for monitor</u> a region of the solid state light source means for <u>monitoring</u> a thermal condition <u>of the region</u>, and output a signal indicative of the thermal condition of the monitored region; and

means for conditionally initiating one or more thermal management actions based at least in part on the thermal condition of the region as indicated by the signal.

20. The projection apparatus of claim 19, wherein the projection apparatus further comprises active cooling means to cool the solid state light source means, and the controller means is also for controlling operation of the active cooling means, based at least in part on the thermal condition of the region as indicated by the signal.